

CONFIDENTIAL

Provisory specsheet - Embargo date 06/02/2014



MY UNDESTRUCTIBLE CAMERA

Colour	Art. Code	EAN
Black	08089	0027075275218
Red	08076	0027075275102
White	08061	0027075274983

SUPPLIED ACCESSORIES

Rechargeable lithium-ion battery D-LI92 Charger kit K-BC92E USB cable I-USB7 Carabiner strap O-ST104 Macro stand O-MS1 Software (CD-ROM) S-SW147

OPTIONAL ACCESSORIES



WG Flat adhesive mount O-CM1471



WG Handle bar mount O-CM1472



WG Suction Cup mount O-CM1473



WG Holder O-CH1470 XXXXX



Carabiner strap O-ST118 (Y&B)/103(OR) 39003 & 39861



Chest harness



Remote control O-RC1 39892



Floating Strap



Black neoprene case

Rechargeable battery Li-Ion D-LI92 - 39800 Charger kit K-BC92E - 39804

AC adapter K-AC117E - 38971 Video cable I-AVC7 - 39552 USB cable I-USB7 - 39551

WG Repair parts 3 O-CM1476 (for O-CH1470) - xxxxx WG Repair parts 1 O-CM1474 (for O-CM1471) - xxxxx WG repair parts 2 O-CM1475 (replacement nut for O-CM1471/72/73)- xxxxx Macro stand O-MS1 - 39004













ADVANTAGES

The Outdoor Camera

Resistant to water, dust, sand, crash, cold and pressure

- Tough construction for shooting in demanding outdoor conditions, you can bring it everywhere or let it in anybody's hands!
- Reliable waterproof construction to assure worry-free shooting at a depth of 10m
- Exceptional shockproof capability; it can withstand a fall from a height of 1.5m
- Crushproof to a pressure up to 100kg
- Coldproof to -10°c.

High Quality Photo & Video

14 MP Sensor and HD Video

- 14 MP CCD Sensor, to offer extremely detailed pictures
- HD Video 720p (1280 x720 pixels, 30 fps) and HDMI terminal

Versatile zoom lens

28mm Wide-angle and 5X Optical Zoom lens Equivalent 35mm: 28-140mm

- Wide-angle 5X zoom to accommodate a wide range of subjects and scenes from landscapes to fast-action sports events.
- 5 LED placed around the lens to avoid shadows on macro photos
- Macro shooting down to just 1 cm from the subject to get spectacular images of flower or insect
- Innovative Digital Microscope mode for accurate, detailed records of tiny parts for people interested in nature observation.
- Mode face detection, smile capture and blink detection
- ISO sensitivity up to 6400

Dimensions: Approx.115.5(W) × 58.5(H) × 28.5(D)mm (including lens depth)

Weight: 143g body only



TECHNICAL SPECIFICATIONS

Number of pixels Approx. 14 megapixels - effective Total pixels Approx. 14.48 megapixels

Sensor size 1/2.3" CCD

14M(4288x3216), 10M(1:1)(3216x3216),10M(16:9)(4224x2376), 7M(3072x 2304), 5M(16:9)(3072x1728), 5M(2592x1944), 4M(16:9) (2592x1464), 3M(2048x1536), 2M(16:9)(1920 x 1080), 1024(1024 x 768), 640(640 x 480) Recorded pixels (still)

In Digital Microscope mode, recorded pixels is fixed to 2M(1920x1080).

In Digital Wide mode, recorded pixels is fixed to 5M(2592x1944) (After Merge) Or fixed at 3M (2048x1536) in single frame, (Before Merge),

At high ISO (3200-6400) recorded pixels is fixed to either 5M(2592x1944) or 4M(2592 x 1464).

In continuous shooting mode(High), recorded pixels is fixed to 5M(1800x1020) or 4M(2592x1944) or frame.

In frame composite mode, recorded pixels is fixed to 3M(2048x1536) or 2M(1920x1080).

In Digital Panorama mode, recorded pixels is fixed to 2M(1600x1200) per frame.

In Driginal Parliote, Tecorded pixels is liked to 2M(1600x1250) per frame.

* In Report mode, recorded pixels is fixed to 1280x960.

* In Original Frame mode, recorded pixels is fixed to either 5M(2592x1944) or 4M(2592 x 1464).

AUTO, Manual (ISO 80 - 6400)

ISO 80-100, ISO 80-200, ISO 80-400, ISO 80-800, ISO 80-1600 Auto ISO range

Quality level *** Excellent. ** very good. * good

Shake Reduction Pixel Track SR, Hi-sensitivity anti-shake mode (Digital SR)

Auto ISO range for SR ISO 80 - 6400

Sensitivity

Focal length PENTAX 5-25mm, equ. to 28-140mm in 35mm

F3.5(W) - F5.5(T) Aperture Smallest aperture F4.2(W) - F6.6(T)

RICOH lens, 11 elements in 9 groups (5 aspherical elements) Construction

5X Optical zoom Digital zoom Approx. 6.7X

Intelligent Zoom* Approx. 7.0x at 7M. approx. 33.5x at 640 (including optical zoom)

SCREEN

2.7" Wide TFT color LCD, approx. 230K dots, AR Coating (Cover only)

LCD frame rate Approx. 30fps

FILE FORMATS

JPEG(conforms to Exif 2.3), conforms to DCF2.0, DPOF, PRINT Image Matching III Photo

Video compatible, AVI (Motion JPEG), with sound

Audio* WAV(PCM), monaural (audio sampling rate : 32kHz, 16bit)

MEMORY

External memory Compatible with SD/ SDHC/ SDXC and Eye-fi memory cards* *Verified memory cards : Sandisk, Panasonic, Toshiba

Internal memory Built-in Memory (approx. 97.0MB)

FOCUSING

Туре TTL contrast detection auto focus system, 9-point AF, Spot AF, Auto tracking AF

Modes Infinity-landscape, Pan Focus, Manual Focus

Focus range

Standard: 0.5m - infinity (entire zoom range)
Macro: 0.1 - 0.6m (entire zoom range)
1cm Macro: 0.01 - 0.3m (middle zoom position)
Manual: 0.01m - infinity (Depends on the zooming steps. 0.01m only
available in 2-4 zoom step)

Face Detection AF&AE is available for all modes up to 32 faces. Smile Capture, Self-portrait Assist, Self-portrait Assist + Smile Capture, Blink Detection Face detection

Pet detection Detect up to 1 pet's face(auto or select from pre-registered three faces)

Approx. 0.4x, at focus mode: 1cm macro, focal Length 9.26mm, focusing distance 0.01m Largest magnification

AF Assist lamp available

available, 5 LED to assist close-up shooting Macro light

EXPOSURE CONTROL

Metering system Multi-segment metering, Center-weighted metering, Spot metering

Shutter speed 1/1500 - 1/4sec. 4sec at most, (Night Scene mode setting)

Exposure compensation +2FV(1/3FV steps)

* Intelligent zoom not applicable under (High ISO) Digital SR Mode and Report Mode ** Voice recording functional after allocating it to «Green Button».

Flash modes

Flash-on and Flash-off modes. "Red-eye" compensation function employs a pre-discharge

Wide: approx.0.2 - 3.9m (ISO Auto) Tele: approx. 0.2 - 2.5m (ISO Auto) Flash range

VIDEO

1280(1280x720): approx. 30/15fps, 640(640x480): approx. 30/15fps, 320(320X240): approx. 30/15fps Resolution

Quality level Fixed

Shake reduction Movie shake reduction mode (Movie SR)

POWER SUPPLY

Rechargeable D-LI92 lithium-ion battery Battery

Still*: approx. 260 shots (Rechargeable Lithium-ion battery)
Playback**: approx. 280 min. (Rechargeable Lithium-ion battery)
Movie : approx. 120 min.**; Audio : approx. 350 min. ** Capacity

* Recording capacity shows approximate number of shots recorded during CIPA-compliant testing. Actual performance may vary depending on operating conditions ** According to the result of RICOH IMAGING in-house testing.

Optional AC adapter kit Other

INTERFACES

Video output NTSC/PAL

USB USB2.0(Hi-Speed): PC/AV terminal, HDMI terminal (Type D. Micro port)

SHOOTING FEATURES

One shot, Self-timer, Continuous Shooting, Burst Shooting, Remote Control, Interval Shooting, Auto Bracketing Drive modes

Approx. 0.68 frame/sec (for up to 24 frames) Continuous shooting

High speed cont. shooting Approx. 2.27 f/sec (up to 19 frames); approx. 5.26 frame/sec(up to 19 f. at ISO 3200/6400 setting)

Auto Picture, Program, Night Scene, Movie, Underwater, Underwater Movie, Digital Microscope, Landscape, Flower, Portrait, Digital Wide, Digital SR, Surf&Snow, Kids, Pet, Sport, Fireworks, Candlelight, Night Scene Portrait, Text, Food, Digital Panorama, Frame Composite, Report, Green Scene Modes

Landscape, Portrait, Night Scene, Night Scene Portrait, Standard, Flower, Sport, Candlelight, Blue Sky, Sunset, Text, Group Photo, Pet, Portrait&Blue Sky, Portrait&Sunset, Portrait&Backlight

White Balance Auto, Daylight, Shade, Tungsten light, Fluorescent light, Manual

Dynamic range available (Shadow/Highlight adjustment)

Noise reduction Automatically applied when the shutter speed is slower than 0.25 sec

OTHER FEATURES

Playback functions

Auto picture scene modes

World time Supported

Available (Date, Date & time, Time) (except Green) **Date Imprint**

Image Tone Bright, Natural, Monochrome

English, French, German, Spanish, Portuguese, Italian, Dutch, Japanese, Danish, Swedish, Finnish, Polish, Czech, Hungarian, Turkey, Greek, Russian, Thai, Korean, Simplified Chinese, Traditional Chinese

Playback modes

Slideshow, Image Rotation, Small Face Filter, Ink Rubbing Filter, Collage, Digital Filter (B&W) Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature), Original Frame, Frame Composite, Movie Editing, Red-eye Compensation, Resize, Cropping, Image/Sound Copy, Voice Memo, Protect, DPOF, Startup Screen, Face close up playback.

One Shot, Index (6 thumb nails, 12 thumb nails), Enlargement (up to 10X, scroll available), Movie Playback, Sound Playback, Histogram, Folder display, Select&Delete, Calendar, Changing folder name

Digital filters (playback) B&W / Sepia, Toy Camera, Retro, Color, Extract Color, Color Emphasis, High Contrast, Starburst, Soft, Fish-eye, Brightness, Miniature Filter

Movie edit functions Save as still image, Divide Movies, Adding title picture

Self-timer count 10 sec, 2 sec, Remote Control (immediately, 3 sec)

Start-up Time Approx. 1.3 sec Approx. 0.037 sec Release Time Lug

Water proof / Dustproof* Equivalent to JIS Class 8 waterproof and JIS Class 6 dustproof capabilities.

DIMENSIONS AND WEIGHT

Dimensions Approx.115.5(W) × 58.5(H) × 28.5(D)mm (including lens depth) Weight

With battery & SD card : Approx. 164g (loaded and ready) Body only : Approx. 143g (without battery and SD memory card)

SYSTEM REQUIREMENTS

PC: Windows Vista®, Windows® 7, Windows® 8, Windows® 8.1 Mac CS X 10.6, 10.7, 10.8 Operating systems

SOFTWARE Windows: MediaImpression 3.6.1 LE(Windows) / Mac : MediaImpression 2.2 LE

Waterproof (Up to 10m for 2hours)

** Shock proof (Up to 1.5m)

** Operating Temperature -10°C to 40°C